

## AMENDMENTS TO THE CLAIMS

1. (Currently amended) A pulse oximeter for measuring arterial oxygen saturation levels, ~~the pulse oximeter saturation, the pulse oximeter~~ comprising:

an LED signal generator for transmitting one or more light signals to a testing medium when a turn on voltage is applied to the LED signal generator;

a photodetector signal generator for obtaining at least a portion of the light signal generated by the LED signal generator and for generating a photocurrent corresponding to the detected signals;

an integrated information transmission component for storing information corresponding to the pulse oximeter and for transmitting the information; and

an oximeter processing system for ~~causing~~ applying a turn on voltage to the LED signal generator to cause the LED signal generator to generate a signal, for processing the photocurrent from the photodetector signal generator and for providing a voltage source to cause the information transmission component to transmit the stored information corresponding to the pulse oximeter;

wherein the voltage of the voltage source provided by the oximeter processing system to ~~[[read]] cause~~ the information transmission component ~~can be~~ to transmit the stored information is higher than ~~[[a]] the~~ turn on voltage ~~[[for]] of~~ the LED signal generator and is applied to the information transmission component without causing the LED signal generator to generate a signal.

2. (Original) The pulse oximeter as recited in Claim 1, wherein the integrated information transmission component includes an identification chip for storing the information corresponding to the pulse oximeter.

3. (Original) The pulse oximeter as recited in Claim 1, wherein the integrated information transmission component includes a passive circuit component for storing the information corresponding to the pulse oximeter.

4. (Original) The pulse oximeter as recited in Claim 1, wherein information corresponding to the pulse oximeter includes information corresponding to characteristics of one or more components of the pulse oximeter.

5. (Original) The pulse oximeter as recited in Claim 1, wherein the information corresponding to the pulse oximeter includes information corresponding to the operation of the pulse oximeter.

6. (Currently amended) The pulse oximeter as recited in Claim 1, wherein the information corresponding to the pulse oximeter is selected from a group consisting of a precise wavelength of a LED, a date of manufacture ~~[[for]]~~ of a component, an identification of a manufacturer, authentication codes for a component, a serial number ~~[[for]]~~ of a component, software programs, software updates, a patient identification number, and a clinic identification number.

7. (Original) The pulse oximeter as recited in Claim 1, wherein the integrated information transmission component is configured to not require additional wiring to be integrated in the pulse oximeter.

8. (Currently amended) A pulse oximeter for measuring arterial oxygen saturation levels, ~~the pulse oximeter saturation, the pulse oximeter~~ comprising:

means for transmitting one or more light signals to a testing medium in response to a turn on voltage;

means for obtaining at least a portion of the light signal ~~generated by the LED signal generator~~ transmitted by the transmitting means and for generating a photocurrent corresponding to the detected signals;

means for storing information corresponding to the pulse oximeter; and

means for providing a voltage source to cause the information transmission component to transmit the stored information corresponding to the pulse oximeter, wherein the voltage of the voltage source to [[read]] cause the information transmission component ~~can be to transmit the stored information is~~ higher than ~~[[a]]~~ the turn on voltage ~~[[for]]~~ of the means for transmitting one or more light signals to a testing medium.

9. (Original) The pulse oximeter as recited in Claim 8, wherein the means for storing information corresponding to the pulse oximeter includes an identification chip for storing the information corresponding to the pulse oximeter.

10. (Original) The pulse oximeter as recited in Claim 8, wherein the means for storing information corresponding to the pulse oximeter includes a passive circuit component for storing the information corresponding to the pulse oximeter.

11. (Original) The pulse oximeter as recited in Claim 8, wherein information corresponding to the pulse oximeter includes information corresponding to characteristics of one or more components of the pulse oximeter.

12. (Original) The pulse oximeter as recited in Claim 8, wherein the information corresponding to the pulse oximeter includes information corresponding to the operation of the pulse oximeter.

13. (Currently amended) The pulse oximeter as recited in Claim 8, wherein the information corresponding to the pulse oximeter is selected from a group consisting of a precise wavelength of ~~[[a LED]]~~ the transmitting means, a date of manufacture ~~[[for]]~~ of a component, an identification of a manufacturer, authentication codes for a component, a serial number ~~[[for]]~~ of a component, software programs, software updates, a patient identification number, and a clinic identification number.

14. (Original) The pulse oximeter as recited in Claim 8, wherein the means for storing information corresponding to the pulse oximeter is configured to not require additional wiring to be integrated in the pulse oximeter.

15. (Currently amended) A pulse oximeter for measuring arterial oxygen saturation levels, ~~the pulse oximeter saturation, the pulse oximeter~~ comprising:

a signal generator for transmitting one or more signals to a testing medium when a turn on voltage is applied to the signal generator;

a photodetector signal generator for processing at least a portion of the signal generated by the signal generator;

an integrated information transmission component for storing information corresponding to the pulse oximeter and for transmitting the information, wherein the integrated information transmission component is configured to not require additional wiring to be integrated in the pulse oximeter; and

an oximeter processing system in communication with the signal generator, the photodetector signal generator and the integrated information transmission component, wherein the oximeter processing system provides voltage to cause the information transmission component to transmit the stored information corresponding to the pulse oximeter, ~~wherein~~ the

voltage ~~source can be~~ being higher than ~~[[a]]~~ the turn on voltage ~~[[for]]~~ of the signal generator and applied without causing the signal generator to generate a signal.

16. (Original) The pulse oximeter as recited in Claim 15, wherein the integrated information transmission component includes an identification chip for storing the information corresponding to the pulse oximeter.

17. (Original) The pulse oximeter as recited in Claim 15, wherein the integrated information transmission component includes a passive circuit component for storing the information corresponding to the pulse oximeter.

18. (Original) The pulse oximeter as recited in Claim 15, wherein information corresponding to the pulse oximeter includes information corresponding to characteristics of one or more components of the pulse oximeter.

19. (Original) The pulse oximeter as recited in Claim 15, wherein the information corresponding to the pulse oximeter includes information corresponding to the operation of the pulse oximeter.

20. (New) A pulse oximeter for measuring arterial oxygen saturation levels comprising:

a light source for applying light at a selected wavelength to a test medium when a suitable turn on voltage is applied to the light source;

a light detector for receiving at least a portion of the light produced by the light source and applied to the test medium, and generating a corresponding electrical signal;

an integrated information transmission component for storing information related to the pulse oximeter and generating the information when a suitable voltage is applied to the

integrated information component, the voltage being greater than the turn on voltage of the light source; and

an oximeter processing system for (i) applying a turn on voltage to the light source, (ii) applying a voltage to the integrated information transmission component, (iii) processing the corresponding electrical signal generated by the light detector, and (iv) interpreting the corresponding electrical signal, the oximeter processing system including a switching system for controlling the application of the turn on voltage to the light source and the voltage to the integrated information transmission component such that when the voltage is applied to the integrated information transmission component, the light source is not turned on.

21. (New) The pulse oximeter as recited in Claim 20, wherein the integrated information transmission component includes an identification chip for storing the information corresponding to the pulse oximeter.

22. (New) The pulse oximeter as recited in Claim 20, wherein the integrated information transmission component includes a passive circuit component for storing the information corresponding to the pulse oximeter.

23. (New) The pulse oximeter as recited in Claim 20, wherein information related to the pulse oximeter includes information corresponds to characteristics of one or more components of the pulse oximeter.

24. (New) The pulse oximeter as recited in Claim 20, wherein the information related to the pulse oximeter includes information corresponds to the operation of the pulse oximeter.

25. (New) The pulse oximeter as recited in Claim 20, wherein the information related to the pulse oximeter is selected from a group consisting of the selected wavelength of the light

applied by the light source to the test medium, a date of manufacture of a component, an identification of a manufacturer, authentication codes for a component, a serial number of a component, software programs, software updates, a patient identification number, and a clinic identification number.

26. (New) The pulse oximeter as recited in Claim 20, wherein the integrated information transmission component is configured to not require additional wiring to be integrated in the pulse oximeter.

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